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DESCRIPTION

OPTICAL FIBER TAPE CORE AND PRODUCTION METHOD THEREFOR

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6/8/07 > This application is a 371 of PCT/JP03/08909 filed on 7/14/2003.
5 TECHNICAL FIELD

10 This invention relates to optical fiber tape cores in each of which plural optical fiber cores two-dimensionally arranged in parallel with each other are united together in the form of a tape with a coating layer, and also to their fabrication process.

BACKGROUND ART

15 Optical fiber tape cores each of which is formed of a bundle of plural optical fiber cores united together are known for many years. Owing to the merit that a number of optical fibers can be connected all together, these optical fiber tape cores are widely used as optical transmission media in optical communications systems as a result of the rapid introduction of optical fiber cables in subscribers' systems in recent years.

20 An optical fiber tape core is required to have higher separability into single cores and higher strength, and active research and development work is under way in various companies. To provide optical fiber cores with both strength and separability into single cores, it is the common practice to form a coating layer in a two-layer construction - one being a primary coating layer uniting plural optical fiber cores together and the other a secondary coating layer uniting together such multi-core units covered with such primary coating layers, respectively - and to form the primary and secondary coating layers with UV curable resins different in strength and hardness.

30 In general, optical fiber tape cores coated with such